

JA-163A RB Wireless outdoor battery-powered siren

The JA-163A RB is a component of the **JABLOTRON 100** system. It is used for system alarm indication outside a building. It can also be used for supplementary acoustic signalling (PG activation, setting / unsetting chirps, etc). The siren is powered by just one lithium battery with no other external power. The JA-163A RB consists of the **JA-163A BASE** with PCB, and a BAT-100A lithium battery and always has to be completed with a desired cover from the **JA-1X1A-C-xx** series (see following table). The siren occupies one position in the system. The product should be installed by a trained technician with a valid certificate issued by an authorized distributor.

For combinations of colour and cover material, see the following table:

Cover type	Colour and cover material	Strobe colour
JA-1X1A-C-GR	Grey plastic	Red
JA-1X1A-C-ST	Stainless steel sheet	
JA-1X1A-C-WH	White plastic	
JA-1X1A-C-GR-B	Grey plastic	blue
JA-1X1A-C-ST-B	Stainless steel sheet	
JA-1X1A-C-WH-B	White plastic	

Installation

The whole enrollment procedure has to be done in service mode of the control panel. There must be a JA-11xR radio module installed in the control panel.

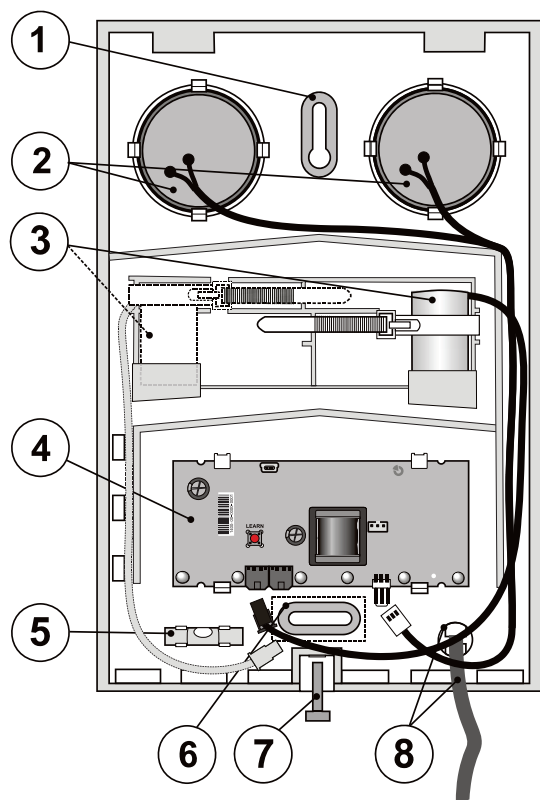


Figure 1: 1 – hole for installing; 2 – piezo sounders; 3 – BAT-100 lithium battery with reusable battery strap (up to 2 batteries can be used); 4 – PCB; 5 – spirit level; 6 – hole for installation with tamper detection; 7 – front cover screw; 8 – string with clip connecting the front cover for easy installation



The siren should be installed on a vertical wall, with the flashing light facing downwards. Avoid installing the siren near the gutters and on other places where there is a danger of ice accumulation.

1. Attach the siren onto a suitable place using 2 screws through the holes (1) and (6). The spirit level can be used for easy installation (5).
2. Connect the BAT-100A lithium battery (3) to the connector (11).

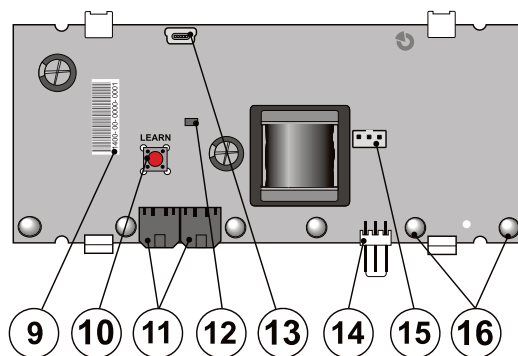


Figure 2: 9 – production code; 10 – LEARN (enrollment) button; 11 – battery connector; 12 – yellow fault indicator; 13 – mini USB connector; 14 – piezo siren connection (attention: high voltage); 15 – external antenna connector; 16 – high intensity red LED flashers

3. Proceed according to the control panel installation manual.
Basic procedure:
 - a. When the battery is connected, the yellow LED (12) indicates by a permanent light that the siren has not been enrolled into the system yet.
 - b. Go to the **F-Link** software, select the required position in the **Devices** tab and launch the enrollment mode by clicking on the **Enroll** option.
 - c. Press the button marked LEARN (10) – the siren is thus enrolled and the yellow LED indicator goes off.
4. Install the siren cover and attach it using the screw (7).
5. Set siren properties, according to the *Internal settings of the siren* chapter.

Notes:

- The siren can also be enrolled into the system by entering its production code (9) in the F-Link software. You can find the production code on the sticker, glued on the PCB. All numbers under the bar code shall be entered (1400-00-0000-0001).
- The siren can be powered by up to two BAT-100A batteries and we recommend this when longer siren operation time is required. There is a place prepared for second battery use, see Figure 1. Connect the battery to the other connector (11). The battery connection order doesn't matter.

Internal settings of the siren

The siren properties can be set in the **Devices** window of the F-Link software. When at the siren position, use the **Internal settings** option to open a dialog window, internal setting is separated into 2 tabs: **Settings** and **PG indication** (default settings are marked *):

Settings tab:

Sections: to set for which sections the siren should indicate an alarm, as well as setting the chirps. The default setting is indication for all sections disabled.

Reaction: defines whether the siren should indicate **EW*** (external warning) or **IW** (internal warning). Alarm indication can also be disabled completely (other functions remain enabled).

Siren sound: intermittent*, continuous. Option *intermittent* saves energy.

Maximum siren time: 1, 2, 3*, 4, 5 minutes.

Acoustic signalling in a section: selection of the sections for which other sounds mentioned below will be produced. Default setting is no section selected.



Enabling of any here-mentioned options causes a reduced battery life time depending on the frequency of its use. That's why we recommend fitting the BAT-100A second battery.

Higher volume: YES / NO* - affects only entrance / exit delay indication and sounds indicating PG output triggering. It doesn't have any influence on the sound of an alarm.

Beeps during section control: YES / NO* – if enabled, the siren chirps once after setting, twice after unsetting and three times when unsetting after an alarm. It only does so when the option *Periodical communication* is set to 1 s.

Entrance delay beeping: YES / NO* if enabled, it indicates the entrance delay time – intermittent beeping.

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Exit delay beeping with a partially set system: YES / NO* - if enabled, it indicates the exit delay for the whole time when the system has been partially set – intermittent beeping. This option is available when *Exit delay beeping* is enabled.

Exit delay beeping: YES / NO* - if enabled, it indicates the exit delay time when the system is fully set – intermittent beeping.

Optical indication:

Flashes every 60 seconds: YES / NO* - It sets to one siren flash per minute. It can be used as a warning that the building is protected by an alarm system.

When controlled by a section: YES / NO* – it sets if a siren should optically indicate setting and unsetting of (a) section(s). It blinks once when set and it blinks twice when unset and when unset after an alarm then three blinks. This option is available only if the periodical communication is set to 1 s.

LED indication: red*/ blue, sirens are equipped with dichromatic LED indicators. According to the colour of the provided front cover it is necessary to set the same colour of LED indication.

Siren flashing options: During alarms*/ 1/ 3/ 5/ 30/ 60 min of flashes after an alarm. This option sets the length of siren flashing for only the alarm time or extended for by a pre-set interval. Extended flashing can be terminated by new system setting or cancellation of alarm indication in the system (with a keypad).

Periodical communication: 1 s / 8 s* – This parameter sets the maximum delay in siren reaction to an alarm. When the option 8 s has been selected, then it is not possible to enable some options such as set / unset indication.

Notes:

- PG output activation sometimes might not be indicated when periodical communication is set to 8 s and a PG output is switched ON for a shorter time than 8 s.
- When periodical communication is set to 1 s it can reduce the typical battery lifetime by half.

PG output indication:

The siren can indicate the activity of selected PG outputs with its chirps.

Chirp 1 – slow chirping - 1 per second (for the whole period when the PG is active)

Chirp 2 – rapid chirping - 2 per second (for the whole period when the PG is active)

Chirp 3 - 1 chirp when the PG is activated, 2 chirps when the PG is deactivated

Chirp 4 – a long 20 sec chirp when the PG is activated

Sound priorities

The siren sound has the highest priority, the control chirps have a lower priority and the PG output activity indication has the lowest priority (PG1 has a higher priority than PG2 etc). A chirp with a higher priority always terminates chirping with a lower priority.

External antenna use

To improve the communication quality between the control panel and the outdoor siren you can connect an external antenna (AN-868). Plug the antenna into the connector (15) on the PCB.

Battery replacement

The product checks the battery status automatically. When a battery fault is triggered, the system informs its user (or service technician). The siren remains fully functional, but we strictly recommend to replace the battery within 2 weeks. **Never try to charge the battery!** Use the BAT-100A type only. The battery can be changed in control panel service mode by a service technician. When replacing is finished, test the siren's functioning. Take the used battery to an official collection point, don't throw it into the trash.

Technical specifications

The JA-163A RB parts (lithium battery, front cover and base) are supplied individually. The reason is the free selection of a wide range of a front covers and the transportation of lithium batteries.

Power	Lithium battery 3.6 V / 13 Ah type BAT-100A (up to 2 batteries can be used)
	Please note: Batteries are not included
Typical battery lifetime	approx. 5 years (for default settings)
Communication band	868.1 MHz, JABLOTRON protocol
Communication range	approx. 300 m (open area)
Antenna	internal, external can be used, type AN-868
Piezo electric siren	110 dB/m (new battery)
Dimensions (cover included)	200 x 300 x 70 mm
Classification	grade 2
According to	EN 50131-1, EN 50131-4
Environmental class	IV general outdoor -25 to +60°C
Security grade	IP44
Also complies with	ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1 ERC REC 70-03
Can be operated to	



JABLOTRON ALARMS a.s. hereby declares that the JA-163A is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC and 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Technical Support section

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit www.jablotron.com.